

Chapter 4 Quiz Review (Sections 4-1 to 4-4)

Write each phrase as an algebraic expression.

1. 10 times a number

$10n$

2. 20 more than c

$c + 20$

3. 8 less than r

$r - 8$

4. the product of h and 32

$32h$

5. A number divided by 16

$\frac{n}{16}$

Write each sentence as an algebraic equation.

6. 5 more than 8 times a number is 29.

$8n + 5 = 29$

7. The sum of a number and 12 is 20.

$n + 12 = 20$

8. 45 minus a number is 18.

$45 - n = 18$

9. 20 divided by the product of 2 and a number is 10.

$\frac{20}{2n} = 10$

Solve each equation. Check your solution.

10. $e + 8 = 13$

$$\begin{array}{r} -8 \quad -8 \\ e + 8 = 13 \\ \hline e = 5 \end{array}$$

$$\begin{array}{l} 5 + 8 = 13 \\ 13 = 13 \\ \checkmark \end{array}$$

~~11. $7 - p = -4$~~

12. $12 + x = -18$

$$\begin{array}{r} -12 \quad -12 \\ 12 + x = -18 \\ \hline x = -30 \end{array}$$

$12 + (-30) = -18$

$-18 = -18$

13. $a - 5 = 11$

$$\begin{array}{r} +5 \quad +5 \\ a - 5 = 11 \\ \hline a = 16 \end{array}$$

$16 - 5 = 11$

$11 = 11$